



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact [support@jstor.org](mailto:support@jstor.org).

# SCIENCE

FRIDAY, FEBRUARY 23, 1917

## CONTENTS

<i>Biology and Preparedness:</i> DR. STEWART PATON .....	173
<i>The Ecological Significance of Soil Aeration:</i> DR. W. A. CANNON AND DR. E. E. FREE ...	178
<i>Scientific Events:—</i>	
<i>The Work of the American Museum of Natural History; Higher Education in Washington; Grants for Scientific Work from the Loutreuil Fund</i> .....	181
<i>Scientific Notes and News</i> .....	183
<i>University and Educational News</i> .....	186
<i>Discussion and Correspondence:—</i>	
<i>The Limit of the Spectrum in the Ultra-Violet:</i> PROFESSOR THEODORE LYMAN. <i>The Foundations of Dynamics and Dadourian's Analytical Mechanics:</i> PROFESSOR H. M. DADOURIAN. <i>The Synchronic Behavior of Phalangidæ:</i> PROFESSOR W. M. WHEELER. <i>More Complete Titles:</i> PROFESSOR HENRY H. DONALDSON .....	187
<i>Scientific Books:—</i>	
<i>Lane-Clayton on Milk and its Hygienic Relations:</i> DR. C. M. HILLIARD. <i>Petherbridge on Fungoid and Insect Pests:</i> H. L. BOLLEY .....	190
<i>Special Articles:—</i>	
<i>Is Species-specificity a Mendelian Character:</i> DR. JACQUES LOEB .....	191
<i>The American Physical Society:</i> PROFESSOR A. D. COLE .....	193
<i>Societies and Academies:—</i>	
<i>The Biological Society of Washington:</i> DR. M. W. LYON, JR. <i>The Botanical Society of Washington:</i> DR. H. L. SHANTZ .....	195

## BIOLOGY AND PREPAREDNESS<sup>1</sup>

THE association of ideas suggested by the words "biology" and "preparedness" probably marks the beginning of a new epoch in history. The careful consideration of the sequence of events that have led to the formal act of linking together these two words should supply material for an interesting chapter in history, and should furnish an impulse strong enough to re-awaken in the minds of those who have already left hope behind them rational expectations for a slow but steady progress of civilization.

Science, as one of the chief witnesses to this fortunate union, is relieved of any necessity for explaining that while certain by-products may liberate destructive forces, her aims and methods tend beyond peradventure to conserve both life and energy. In view of the critical times in which we are living, this fact by itself is not even half-way satisfying. The human animal needs the stimulus of positive hope and the knowledge of actual accomplishment; and these will be added to our most treasured possessions when once we shall begin, after centuries of indifference, to make preparations for rational living.

During the last two years we have not only changed our general attitude towards life, but have been made most bitterly aware of the disappointments sure to follow dreams of incredible Utopias, or visions of universal peace. We have paid a high price for our failure to emphasize the greater importance of preparing to live ef-

MSS. intended for publication and books, etc., intended for review should be sent to Professor J. McKeen Cattell, Garrison-on-Hudson, N. Y.

<sup>1</sup> Read in symposium on "Biology and National Existence," meeting of the American Naturalists, New York, December 28, 1916.